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Swap invoices frequently cause confusion as they are billed separately from the loan.

Interest Rate Assumptions		
LIBOR	2.00%	
Loan Spread	2.00%	
Floating Rate Today	4.00%	
Swap Rate	2.50%	
Loan Spread	2.00%	
Fixed Rate	4.50%	

Swap Invoices Explained – CPA's

Borrower Pays

Borrower pays on loan	4.00%
Borrower pays on swap	4.50%
Total	8.50%

Borrower Receives

Borrower	receives on swap	4.00%
	Total	4.00%

The borrower's effective fixed rate is therefore 8.50% - 4.00% = 4.50%. This matches the swap rate quoted above.

Now, let's assume LIBOR is at 6.00%.

Borrower Pays	
Borrower pays on loan	8.00%
Borrower pays on swap	4.50%
Total	12.50%
Borrower Receives	
Borrower receives on swap	8.00%
Total	8.00%

The borrower's effective fixed rate is therefore 12.50% - 8.00% = 4.50%. This matches the swap rate quoted above.



Swap Invoices Explained – Borrowers

Loan Payment	
Borrower pays	2.00% + 2.00% = 4.00%

Swap Payment		
Borrower pays	2.50% + 2.00%	= 4.50%
Borrower receives	2.00% + 2.00%	= 4.00%
Bo	rrower Net Pays	0.50%

Add the two invoices together to determine the effective interest rate.

The effective rate is therefore 4.00% + 0.50% = 4.50%. This matches the swap rate above.

Now, let's assume LIBOR is at 6.00%.

Loan Payment		
Borrower pays	6.00% + 2.00% =	8.00%
Swap Payment		
Borrower pays	2.50% + 2.00% =	4.50%
Borrower receives	6.00% + 2.00% =	8.00%
Borrower Net Receives 3.50%		

The effective rate is 8.00% - 3.50% = 4.50%

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Sample Payment Invoices with Principal – Mechanics

Assume a \$25mm loan with monthly principal of \$33,000 in a month with 30 days.

Interest Rate Assumptions

Floating Rate 4.00% Floating interest payment will be \$25,000,000 * 4.00% * 30/360 = \$83,333.33.

Swap rate locked was 4.50% Fixed interest payment will be \$25,000,000 * 4.50% * 30/360 = \$93,750.

Principal of \$33,000 per the Note.

With a traditional fixed rate loan of 4.50%, the monthly P&I payment should be \$126,671.33 as follows:

Principal	\$ 32,921.33
Interest	\$ 93,750.00
Total	\$126,671.33

How the actual mechanics will work:

Loan Invoice	
Principal	\$ 32,921.33
Interest	\$ 83,333.33
Borrower Pays	\$116,254.66

Swap Invoice

Borrower pays	\$ 93,750.00
Borrower receives	\$ 83,333.33
Borrower Net Pays	\$ 10,416.67

Add the two invoices together to determine the total payment.

The total payment is 116,254.66 + 10,416.67 = 126,671.33. This matches the payment from above in the traditional fixed rate loan scenario.

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